

ABSTRACT

Disclosed is a process for the manufacture of an
5 elastic polyurethane fiber, including mixing one component
selected from among polystyrene polymers or polystyrene
copolymers having a number average molecular weight of
50,000-500,000 with polyurethane having a number average
molecular weight of 15,000-100,000, to prepare a polymer
10 mixture, which is then spun. The polyurethane elastic fiber
made by the method is also provided, which is greatly
increased in heat set properties, with a very low rate of
change of fundamental properties as the results compared
with conventional elastic polyurethane fibers. Hence, the
15 elastic polyurethane fiber can be directly applied for
preparation of end products requiring superior heat set
properties with no change of conventional conditions of the
process.